

**Amendments to the Claims:**

This listing of the claims will replace all prior versions, and listings, of claims in the application:

**Listing of the Claims:**

Claim 1 (currently amended): A process comprising:

- circulating a working fluid through a first [[a]] flow path, wherein the working fluid comprises molecules ~~having a carbon-to-carbon bond~~ comprising carbon;
- pumping the working fluid in liquid form to an elevated pressure;
- flowing the working fluid through ~~a heat exchanger comprising bipolar plates~~ the center of a bipolar plate in a fuel cell stack;
- heating the working fluid to a high temperature and high-pressure gas;
- expanding the high temperature and high-pressure gas through an expander to produce shaft work;
- using the shaft work to drive an air compressor for compressing air and delivering compressed air to a fuel cell subcomponent;
- and removing energy from the gas to change the gas to the working fluid in liquid form;
- and flowing hydrogen through a second flow path including the fuel cell stack to generate electricity using the hydrogen, and wherein the first flow path does not include a steam reforming reactor to reform the working fluid.

Claim 2 (previously presented): A process as set forth in claim 1 further comprising using the shaft work to drive a pump for pressuring and delivering cooling fluid to a fuel cell component.

Claims 3-6 (canceled).

Claim 7 (currently amended): A process of heating a fuel cell stack during relatively cold startup conditions comprising:

(a) pumping a fuel cell stack liquid cooling fluid to an elevated pressure, and wherein the liquid cooling fluid comprises molecules ~~having a carbon to carbon bond~~ comprising carbon;

(b) ~~flow in the~~ flowing the liquid cooling fluid through ~~a heat exchanger the~~ center of a bipolar plate in a fuel cell stack thereby transferring thermal energy between the fuel cell stack liquid cooling fluid and a fuel cell stack;

(c) heating the liquid cooling fluid;

(d) immediately thereafter expanding the heated cooling fluid in an expander to produce shaft work;

(e) using the shaft work to drive an air compressor for compressing air and delivering compressed air to the fuel cell stack;

(f) directing the cooling fluid through a condenser comprising fans and wherein the condenser fans are turned off, and

(g) repeating steps (a-f) until the temperature of a fuel cell stack has reached a predetermined temperature suitable for operating the fuel cell stack under cross-startup operating conditions.

Claim 8 (original): A process as set forth in claim 7 further comprising using the shaft work to drive a pump for pressurizing and delivering cooling fluid to a fuel cell system component.

Claim 9 (canceled).

Claim 10 (previously presented): A process as set forth in claim 1 wherein the working fluid comprises  $\text{CClF}_2\text{CClF}_2$ .

Claim 11 (previously presented): A process as set forth in claim 7 wherein the liquid cooling fluid comprises  $\text{CClF}_2\text{CClF}_2$ .

Claims 12-20 (Canceled).

Claim 21 (new): A process as set forth in claim 1 wherein the molecules further comprise a halide.

Claim 22 (new): A process as set forth in claim 7 wherein the molecules further comprise a halide.

Claim 23 (new): A process as set forth in claim 1 wherein the first flow path and the second flow path do not share a common portion.